

AMENDMENTS TO THE CLAIMS

1-4. (Cancelled)

5. (New) A diaphragm pump comprising:

a drive motor;

an eccentric member connected to a shaft of said drive motor;

a con rod operatively connected to said eccentric member, said con rod including an enlarged end having a plurality of outer surfaces, said con rod having an annular groove at a top one of said outer surfaces of said enlarged end, said con rod being made of a polyamide resin;

a rubber diaphragm wrapped around said enlarged end of said con rod; and

an adhesive interface coated between said rubber diaphragm and said enlarged end of said con rod,

wherein said rubber diaphragm is molded about said enlarged end of said con rod so as to be fitted into said annular groove and integrally united with at least a portion of each of said outer surfaces of said enlarged end via said adhesive interface so as to be integrally connected to said con rod.

6. (New) A diaphragm pump according to claim 5, further comprising:

at least one umbrella-shaped valve on a suction side of the diaphragm pump; and

at least one umbrella-shaped valve on an ejection side of the diaphragm pump.

7. (New) A diaphragm pump according to claim 5, wherein said rubber diaphragm constitutes an injection-molded rubber diaphragm injection molded about said enlarged end of said con rod.

8. (New) A diaphragm pump according to claim 5, wherein said rubber diaphragm is integrally united with an entirety of each of said outer surfaces of said enlarged end.